

In the Claims:

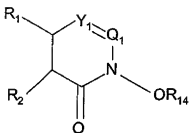
Please cancel claims 20-31, 69 and 71, and amend the remaining claims as shown. A detailed listing of the claims is provided, below.

1. – 19. (Canceled)

20. – 31. (Canceled)

32. – 55. (Canceled)

56. (Currently Amended) A compound or salt, wherein the compound or the cation of the salt is of the formula



wherein

R<sub>1</sub> and R<sub>2</sub> taken together with the carbon atoms to which they are attached form an heteroaryl ring wherein said heteroaryl ring is an oxygen, sulfur or nitrogen heteroaromatic containing from 3 to 13 ring carbon atoms and 1-4 heteroatoms selected from O, S, and N a pyridyl ring, said heteroaryl pyridyl ring may be unsubstituted or substituted with a lower alkyl group or an electron donating group;

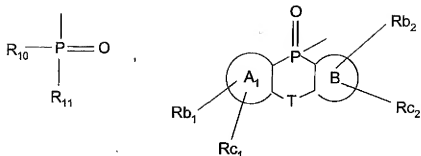
Y<sub>1</sub> is N or CR<sub>15</sub>;

R<sub>15</sub> is H or lower alkyl;

Q<sub>1</sub> is N or CR<sub>16</sub>;

R<sub>16</sub> is H or lower alkyl;

R<sub>14</sub> is a positively charged electron withdrawing group,



SO<sub>2</sub>R<sub>17</sub>, lower alkyl carbonyl, aryl carbonyl, lower alkyl aryl, or BLK<sub>1</sub>-AA<sub>1</sub>

R<sub>17</sub> is aryl, aryl lower alkyl or lower alkyl;

AA<sub>1</sub> is an amino acid or peptide less a hydrogen atom on the N-terminus and an OH on the C-terminus;

BLK<sub>1</sub> is an amino protecting group,

R<sub>10</sub> is OR<sub>12</sub>, lower alkyl, aryl, aryl lower alkyl, lower cycloalkyl, lower cycloalkyl lower alkyl, heterocyclic, heterocyclic lower alkyl, lower cycloalkenyl, or lower cycloalkenyl lower alkyl;

R<sub>11</sub> is OR<sub>13</sub>, lower alkyl, aryl, aryl lower alkyl, lower cycloalkyl, lower cycloalkyl lower alkyl, heterocyclic, heterocyclic lower alkyl, lower cycloalkenyl or lower cycloalkenyl lower alkyl;

and R<sub>10</sub> and R<sub>11</sub> may optionally be connected by a bridging group selected from the group consisting of O, S, NR<sub>30</sub>, or (CHR<sub>30</sub>)<sub>m</sub>, wherein each R<sub>30</sub> is independently lower alkyl or hydrogen and m is 1-3; and

R<sub>12</sub> and R<sub>13</sub> are independently lower alkyl, lower cycloalkyl, lower cycloalkyl lower alkyl, heterocyclic, heterocyclic lower alkyl, lower cycloalkenyl or lower cycloalkenyl lower alkyl;

ring A<sub>1</sub> and ring B are independently an aromatic ring containing 6 to 14 ring carbon atoms or cycloalkenyl or cycloalkyl, each containing 5 to 14 ring carbon atoms, and

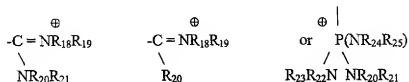
R<sub>b1</sub>, R<sub>c1</sub>, R<sub>b2</sub>, R<sub>c2</sub> are independently hydrogen, lower alkyl or electron donating group;

T is CHR<sub>31</sub>, O, S or NR<sub>30</sub>; and

R<sub>31</sub> is hydrogen or lower alkyl.

57. (Original) The salt according to Claim 56 wherein R<sub>14</sub> is a positively charged electron withdrawing group.

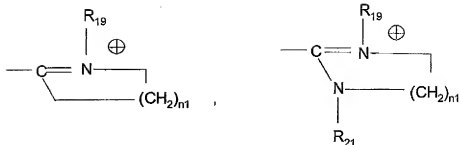
58. (Currently Amended) The salt according to Claim 57 wherein R<sub>14</sub> is an electron withdrawing group of the formula



wherein

R<sub>18</sub>, R<sub>19</sub>, R<sub>20</sub>, R<sub>21</sub>, R<sub>22</sub>, R<sub>23</sub>, ~~and~~ R<sub>24</sub> and R<sub>25</sub> are independently hydrogen, lower alkyl, or lower alkoxy lower alkyl or R<sub>18</sub> and R<sub>19</sub> taken together with the atoms to which they are attached form a ring containing up to 6 ring atoms and up to a total of 5 carbon ring atoms or R<sub>20</sub> and R<sub>21</sub> taken together with the nitrogen atom to which they are attached form a 5 or 6 membered nitrogen containing heterocyclic ring containing up to a total of 5 carbon ring atoms or R<sub>18</sub> and R<sub>20</sub> taken together with the nitrogen atom and the carbon atom to which they are attached form a heterocyclic ring, or R<sub>22</sub> and R<sub>23</sub> taken together with the atoms to which they are attached form a ring containing up to 6 ring atoms and up to a total of 5 carbon atoms or R<sub>24</sub> and R<sub>25</sub> taken together with the carbon atoms to which they are attached form a ring containing up to 6 ring atoms and up to a total of 5 carbon atoms.

59. (Currently Amended) The salt according to Claim 58 wherein R<sub>14</sub> is



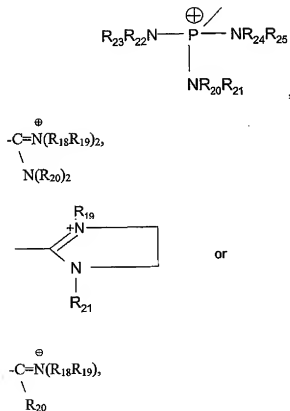
$\oplus$

or  $P(NR_{24}R_{25})_3$

wherein  $R_{19}$ ,  $R_{20}$ , and  $R_{21}$ ,  $R_{24}$  and  $R_{25}$  are independently hydrogen, or lower alkyl or lower alkoxy lower alkyl; and  $n_1$  is 0 or 1.

60. (Currently Amended) The salt according to Claim 59 wherein  $R_{19}$  and  $R_{21}$  or  $R_{24}$  and  $R_{25}$  are the same.

61. (Original) The salt according to Claim 56 wherein  $R_{14}$  is

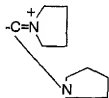
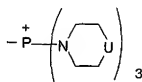
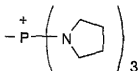
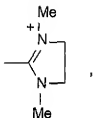


wherein  $R_{18}$ ,  $R_{19}$ ,  $R_{20}$ ,  $R_{21}$ ,  $R_{22}$ ,  $R_{23}$ ,  $R_{24}$  and  $R_{25}$  are independently hydrogen, methyl, ethyl, propyl, butyl, pentyl, or  $CH_2CH_2OCH_2CH_3$ .

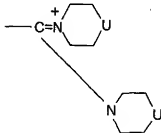
62. (Currently Amended) The salt according to Claim 61 wherein R<sub>23</sub>, R<sub>22</sub>, R<sub>20</sub>, R<sub>21</sub>, R<sub>24</sub>, and R<sub>25</sub> are the same or R<sub>18</sub>, R<sub>19</sub> and R<sub>20</sub> are the same or R<sub>19</sub> and R<sub>21</sub> are the same.

63. (Currently Amended) The compound or salt according to Claim 56 wherein R<sub>14</sub> is  $\oplus$

$\oplus$   
-P-(NMe<sub>2</sub>)<sub>3</sub>, lower alkyl carbonyl, lower arylalkyl carbonyl, aryl carbonyl,

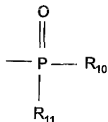


or



wherein U is NH, or O.

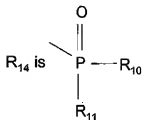
64. (Currently Amended) The compound according to Claim 56 wherein  $R_{14}$  is



65. (Original) The compound according to Claim 64 wherein  $R_{10}$  is  $OR_{12}$ , lower alkyl, aryl, or aryl lower alkyl;  $R_{11}$  is  $OR_{13}$ , lower alkyl, aryl; or aryl lower alkyl and  $R_{10}$  and  $R_{11}$  may optionally be connected by a bridging group selected from the group consisting of O, S, NH, and  $(CH_2)_m$ ; m is 1-3; and

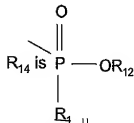
$R_{12}$  and  $R_{13}$  are independently lower alkyl, aryl, or aryl lower alkyl.

66. (Original) The compound according to Claim 56 wherein



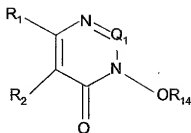
wherein  $R_{10}$  and  $R_{11}$  are independently lower alkyl or aryl.

67. (Currently Amended) The compound according to Claim 56 wherein



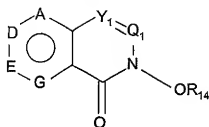
wherein  $R_{11}$  and  $R_{12}$  are independently lower alkyl or aryl.

68. (Currently Amended) The compound or salt according to Claim 56 wherein the compound or the cation of the salt has the formula



69. (Canceled)

70. (Currently Amended) The compound according to Claim 56 wherein the compound or the cation of the salt has the formula



wherein

A is N or CR<sub>24</sub>;

D is CR<sub>25</sub> or N;

E is CR<sub>26</sub> or N;

G is CR<sub>27</sub> or N;

R<sub>24</sub>, R<sub>25</sub>, R<sub>26</sub> and R<sub>27</sub> are independently hydrogen, or a lower alkyl group or an electron donating group, or R<sub>25</sub> and R<sub>26</sub> or R<sub>24</sub> and R<sub>25</sub> or R<sub>26</sub> and R<sub>27</sub> taken together with the carbon atoms to which they are respectively attached form an aryl ring;

wherein at least one of A, D, E and G, is N;

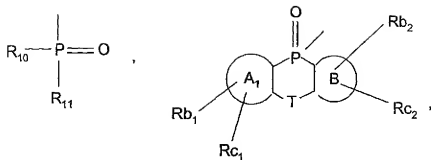
Y<sub>1</sub> is N or CR<sub>15</sub>;

R<sub>15</sub> is H or lower alkyl;

Q<sub>1</sub> is N or CR<sub>16</sub>;

R<sub>16</sub> is H or lower alkyl;

R<sub>14</sub> is a positively charged electron withdrawing group,



SO<sub>2</sub>R<sub>17</sub>, lower alkyl carbonyl, aryl carbonyl, loweralkyl aryl, or BLK<sub>1</sub>-AA<sub>1</sub>

R<sub>17</sub> is aryl, aryl lower alkyl or lower alkyl;

AA<sub>1</sub> is an amino acid or peptide less a hydrogen atom on the N-terminus and an OH on the C-terminus;

BLK<sub>1</sub> is an amino protecting group,

R<sub>10</sub> is OR<sub>12</sub>, lower alkyl, aryl, aryl lower alkyl, lower cycloalkyl, lower cycloalkyl lower alkyl, heterocyclic, heterocyclic lower alkyl, lower cycloalkenyl, or lower cycloalkenyl lower alkyl;

R<sub>11</sub> is OR<sub>13</sub>, lower alkyl, aryl, aryl lower alkyl, lower cycloalkyl, lower cycloalkyl lower alkyl, heterocyclic, heterocyclic lower alkyl, lower cycloalkenyl or lower cycloalkenyl lower alkyl;

and R<sub>10</sub> and R<sub>11</sub> may optionally be connected by a bridging group selected from the group consisting of O, S, NR<sub>30</sub>, or (CHR<sub>30</sub>)<sub>m</sub>, wherein each R<sub>30</sub> is independently lower alkyl or hydrogen and m is 1-3; and

R<sub>12</sub> and R<sub>13</sub> are independently lower alkyl, lower cycloalkyl, lower cycloalkyl lower alkyl, heterocyclic, heterocyclic lower alkyl, lower cycloalkenyl or lower cycloalkenyl lower alkyl;

ring A<sub>1</sub> and ring B are independently an aromatic ring containing 6 to 14 ring carbon atoms or cycloalkenyl or cycloalkyl, each containing 5 to 14 ring carbon atoms, and

R<sub>b1</sub>, R<sub>c1</sub>, R<sub>b2</sub>, R<sub>c2</sub> are independently hydrogen, lower alkyl or electron donating group;



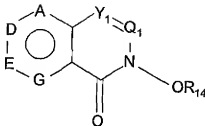
T is (CHR<sub>31</sub>), O, S or NR<sub>31</sub>; and

R<sub>31</sub> is hydrogen or lower alkyl.

71. (Canceled)

72. (Currently Amended) The compound or salt according to Claim 70

where the compound or the cation has the formula



wherein

A is N or CR<sub>24</sub>;

D is CR<sub>25</sub> or N;

E is CR<sub>26</sub> or N;

G is CR<sub>27</sub> or N;

R<sub>24</sub>, R<sub>25</sub>, R<sub>26</sub> and R<sub>27</sub> are independently hydrogen or lower alkyl;

wherein ~~at least~~ one of A, D, E and G, is N;

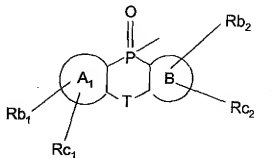
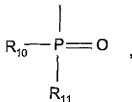
Y<sub>1</sub> is ~~N or CR<sub>15</sub>~~;

~~R<sub>15</sub> is H or lower alkyl;~~

Q<sub>1</sub> is ~~N or CR<sub>16</sub>~~;

R<sub>16</sub> is H or lower alkyl;

R<sub>14</sub> is a positively charged electron withdrawing group,



SO<sub>2</sub>R<sub>17</sub>, lower alkyl carbonyl, aryl carbonyl, loweralkyl aryl, or BLK<sub>1</sub>-AA<sub>1</sub>

R<sub>17</sub> is aryl, aryl lower alkyl or lower alkyl;

AA<sub>1</sub> is an amino acid or peptide less a hydrogen atom on the N-terminus and an OH on the C-terminus;

BLK<sub>1</sub> is an amino protecting group,

R<sub>10</sub> is OR<sub>12</sub>, lower alkyl, aryl, aryl lower alkyl, lower cycloalkyl, lower cycloalkyl lower alkyl, heterocyclic, heterocyclic lower alkyl, lower cycloalkenyl, or lower cycloalkenyl lower alkyl;

R<sub>11</sub> is OR<sub>13</sub>, lower alkyl, aryl, aryl lower alkyl, lower cycloalkyl, lower cycloalkyl lower alkyl, heterocyclic, heterocyclic lower alkyl, lower cycloalkenyl or lower cycloalkenyl lower alkyl;

and R<sub>10</sub> and R<sub>11</sub> may optionally be connected by a bridging group selected from the group consisting of O, S, NR<sub>30</sub>, or (CHR<sub>30</sub>)<sub>m</sub>, wherein each R<sub>30</sub> is independently lower alkyl or hydrogen and m is 1-3; and

R<sub>12</sub> and R<sub>13</sub> are independently lower alkyl, lower cycloalkyl, lower cycloalkyl lower alkyl, heterocyclic, heterocyclic lower alkyl, lower cycloalkenyl or lower cycloalkenyl lower alkyl;

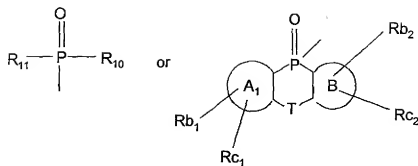
ring A<sub>1</sub> and ring B are independently an aromatic ring containing 6 to 14 ring carbon atoms or cycloalkenyl or cycloalkyl, each containing 5 to 14 ring carbon atoms, and

R<sub>b1</sub>, R<sub>c1</sub>, R<sub>b2</sub>, R<sub>c2</sub> are independently hydrogen, lower alkyl or electron donating group;

T is (CHR<sub>31</sub>), O, S or NR<sub>31</sub>; and

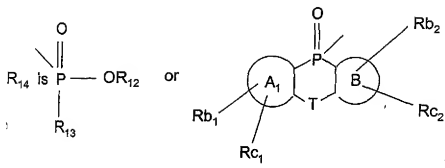
R<sub>31</sub> is hydrogen or lower alkyl.

73. (Original) The compound according to Claim 72 wherein R<sub>14</sub> is



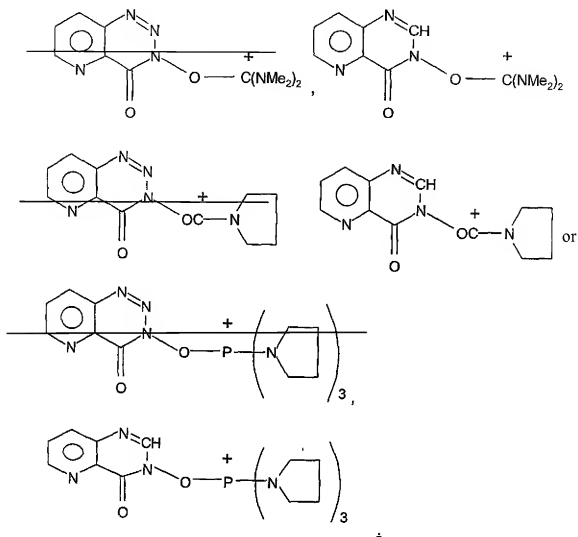
wherein  $R_{10}$  and  $R_{11}$ ,  $R_{b1}$ ,  $R_{b2}$ ,  $R_{c1}$ ,  $R_{c2}$  are independently hydrogen or lower alkyl and T is O, CH<sub>2</sub>, NH or S and ring A<sub>1</sub> and ring B are independently an aromatic ring.

74. (Original) The compound according to Claim 56 wherein

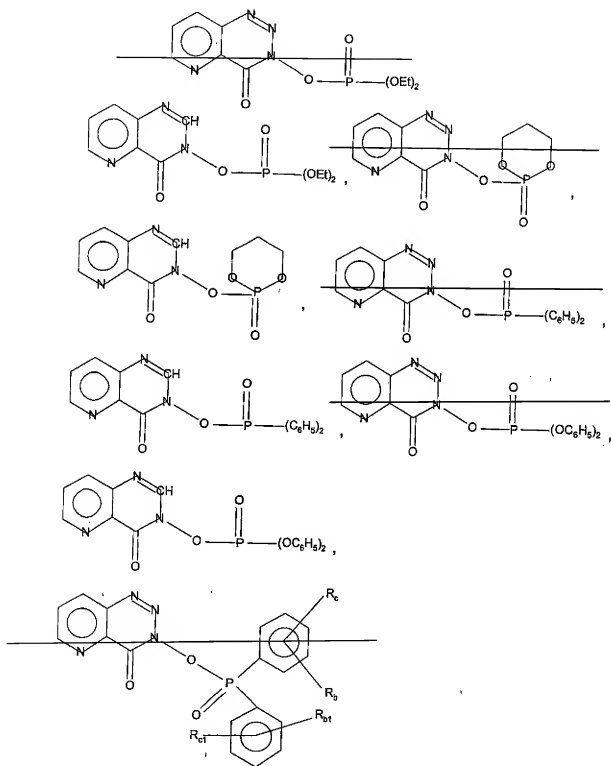


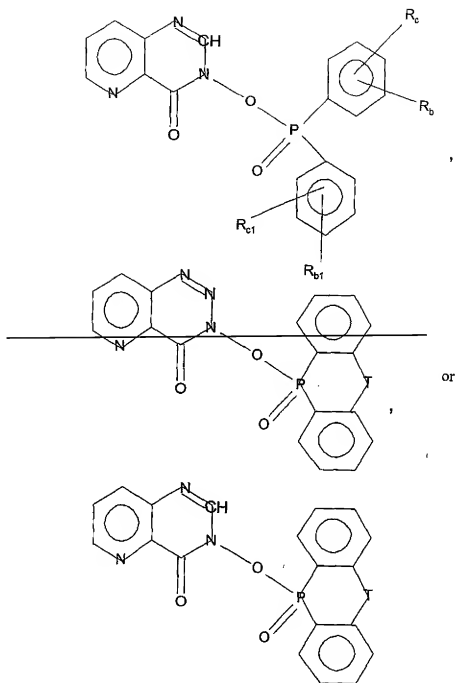
wherein  $R_{12}$ ,  $R_{13}$ ,  $R_{b1}$ ,  $R_{b2}$ ,  $R_{c1}$  and  $R_{c2}$  are independently hydrogen or lower alkyl;  
 ring A<sub>1</sub> and ring B are independently phenyl; and  
 T is CH<sub>2</sub>, O, S or NH.

75. (Currently Amended) The compound according to Claim 56 wherein the compound is a salt, the cation of which has the formula



76. (Currently Amended) The compound according to Claim 56 wherein the compound has the formula





wherein  $R_b$ ,  $R_{b1}$ ,  $R_c$ , are independently lower alkyl or hydrogen and  $T$  is  $CH_2$ ,  $NH$ ,  $O$  or  $S$ .

77. – 129 (Canceled)